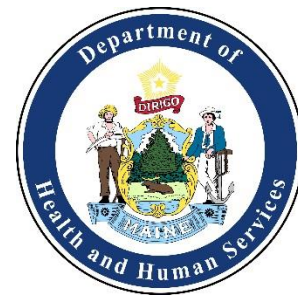# Maine Weekly Influenza Surveillance Report

January 7, 2020

For MMWR week 01 (ending 01/04/2020)
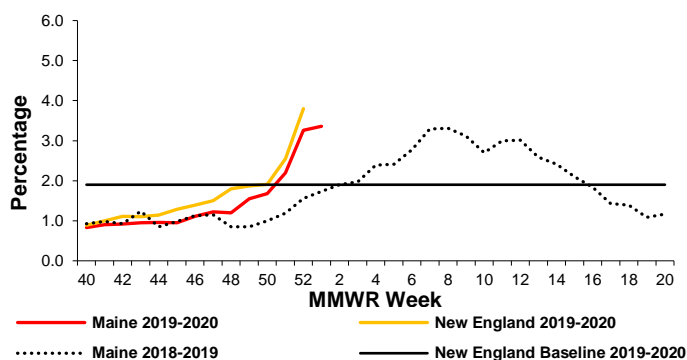
Geographic Spread: Widespread

Surveillance Information – Maine, 2019-2020 Influenza Season
- Number of ILINet Providers reporting: 49
    - % of visits for Influenza-Like Illness (ILI): 3.36
- Syndromic Surveillance
    - % of Emergency Room visits for ILI: 3.8
    - % of Emergency Medical Services (EMS) runs for ILI: 1.4
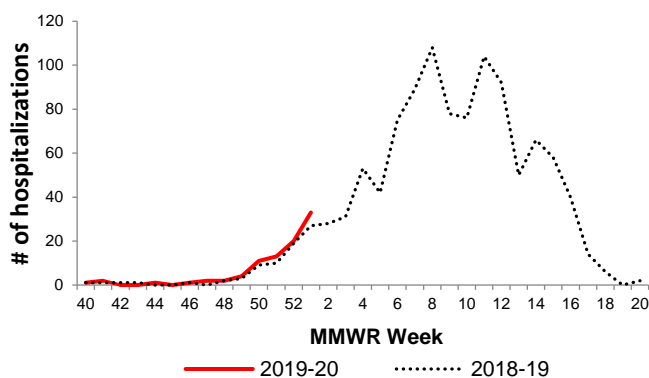
Outpatient Visits for ILI – Maine, 2018-20

Syndromic Surveillance data for ILI – Maine, 2018 -20
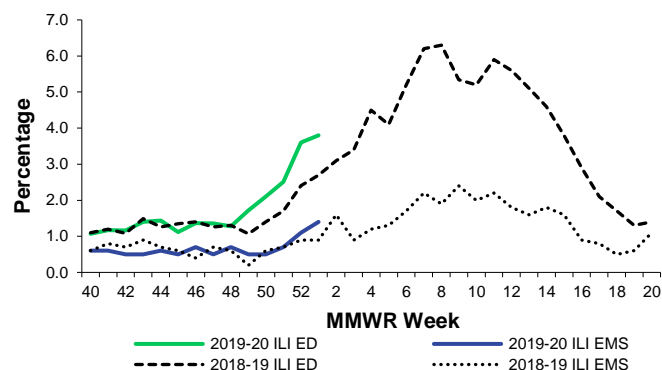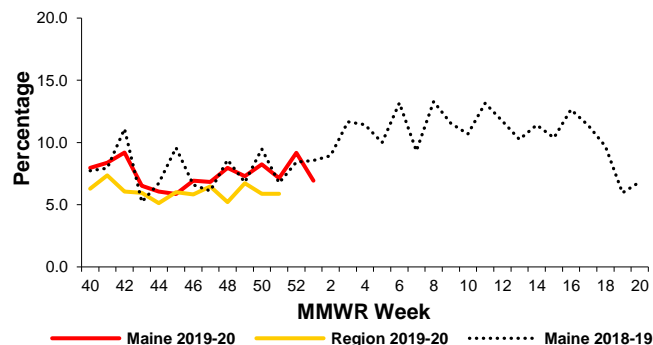

Influenza Hospitalizations
- # of hospitalizations: 33

Pneumonia and Influenza (P&I) Deaths
- % of deaths due to P&I: 6.9
- # influenza deaths reported this week: 0
- Total influenza deaths this season: 6

Influenza Hospitalizations – Maine, 2018-20

**Deaths Attributable to P&I – Maine, 2018-20**

*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I) deaths.

*All data is preliminary and subject to change*

Lab Data – Maine, 2019-2020 Influenza Season

- # of samples tested at HETL: 44
    - # positive: 31
    - % positive: 70
- # of samples tested at Maine Reference Labs: 657
    - # positive: 119
    - % positive: 18.1
- # of samples positive by rapid antigen test: 152

Positive PCR Samples for Influenza, HETL – Maine, 2019-20
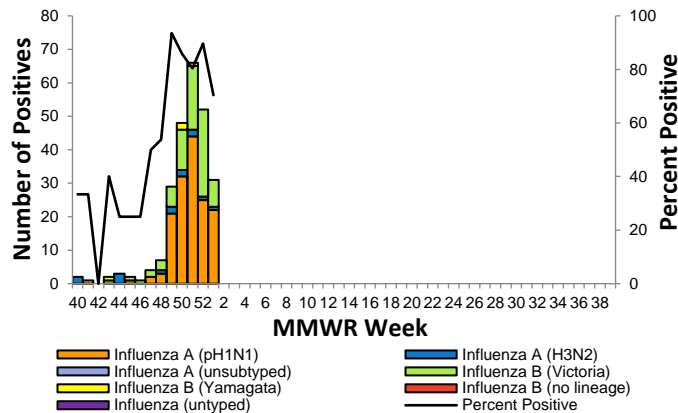
Positive Samples for Influenza, Maine Reference Labs – Maine, 2019-20
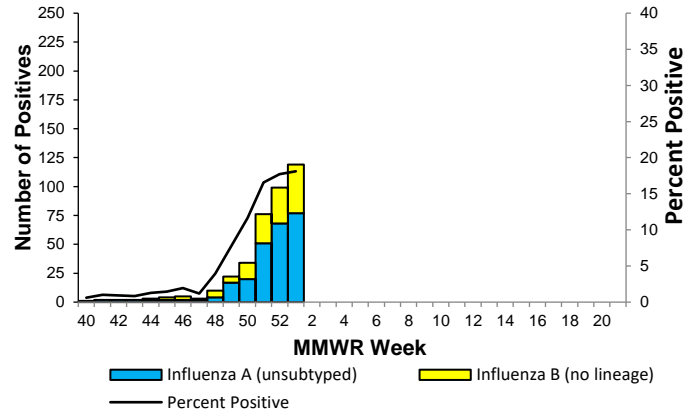
Total Reported Positive Influenza Tests – Maine, 2019-20
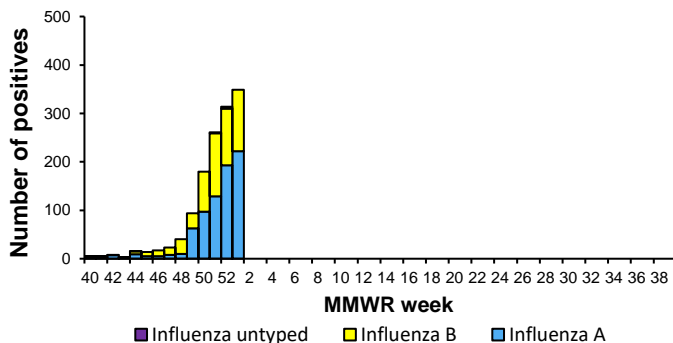
Cumulative Influenza Positive Tests by Strain, HETL – Maine, 2019-20
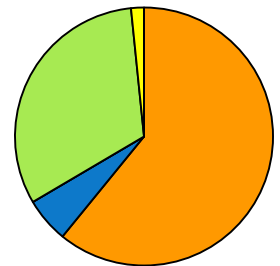
Antiviral Resistance – Maine, 2019-20 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 0
    - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 0
    - # with resistance: 0

All data is preliminary and subject to change

Geographic Distribution of Lab Tests, Maine 2019-20*

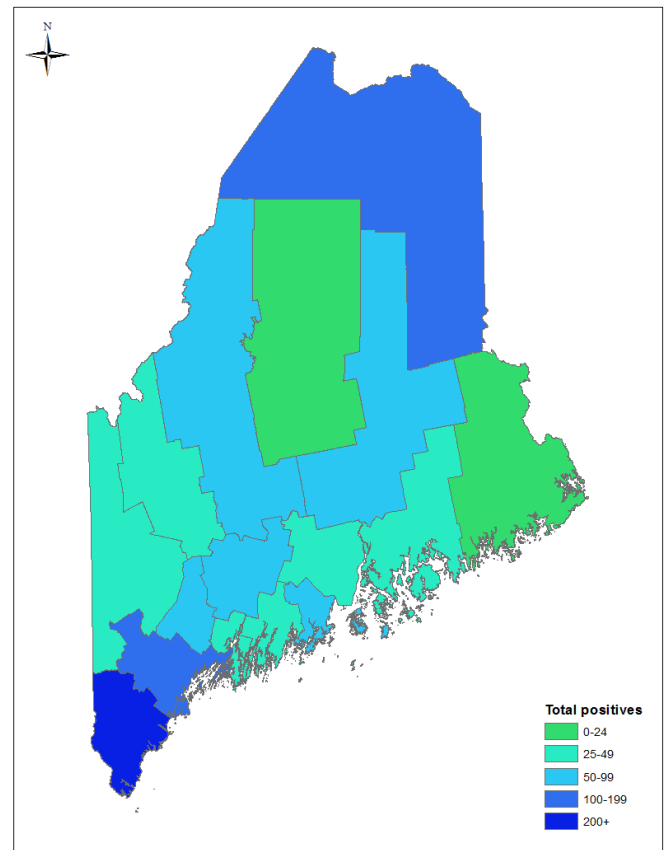| County	Positive labs		Hospitalizations	
	Tested this week	Total	New this week	Total
Androscoggin	24	71	1	3
Aroostook	37	160	2	2
Cumberland	70	171	7	19
Franklin	10	41	2	2
Hancock	11	25	1	2
Kennebec	19	88	4	9
Knox	20	68	1	2
Lincoln	7	44	2	4
Oxford	20	46	4	9
Penobscot	29	90	3	9
Piscataquis	1	7	0	2
Sagadahoc	10	25	0	0
Somerset	13	54	1	10
Waldo	13	43	1	3
Washington	3	11	0	0
York	64	343	4	14
Total	**351**	**1287**	**33**	**90**

*Only reported PCR, culture, and rapid antigen tests are included in the chart and map.

Positive Influenza Tests, Maine 2019-20

Total positives
- 0-24
- 25-49
- 50-99
- 100-199
- 200+

Age Information – Maine, 2019-20 Influenza Season

	Cases	Hospitalizations	Deaths
Minimum Age	1 month	7 months	40 years
Mean Age	32 years	59 years	68 years
Maximum Age	103 years	94 years	94 years

Positive Influenza Tests by Age and Hospitalization Status – Maine, 2019-20
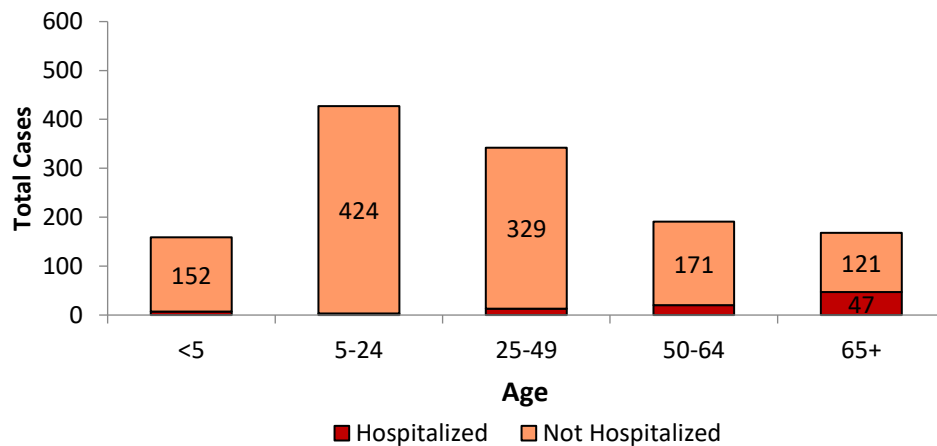
*All data is preliminary and subject to change*

Antigenic Characterization (Vaccine Strain Match)

- Federal CDC has antigenically characterized 167 influenza viruses from September 29– December 28, 2019.
  - 100% of influenza A/H1N1 samples match the vaccine strain
  - 34.1% of influenza A/H3N2 samples match the vaccine strain
  - 58% of influenza B/Victoria samples match the vaccine strain
  - 100% of influenza B/Yamagata samples match the vaccine strain
- Antigenic characterization shows if the circulating strains are the same strains that were used to make the vaccine. This does not tell you how effective the vaccine is at creating an immune response.

Influenza-Like Illness Outbreaks – Maine, 2019-20 Influenza Season

- # new outbreaks: 2
- Total outbreaks 2019-20 season: 9

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2019-20
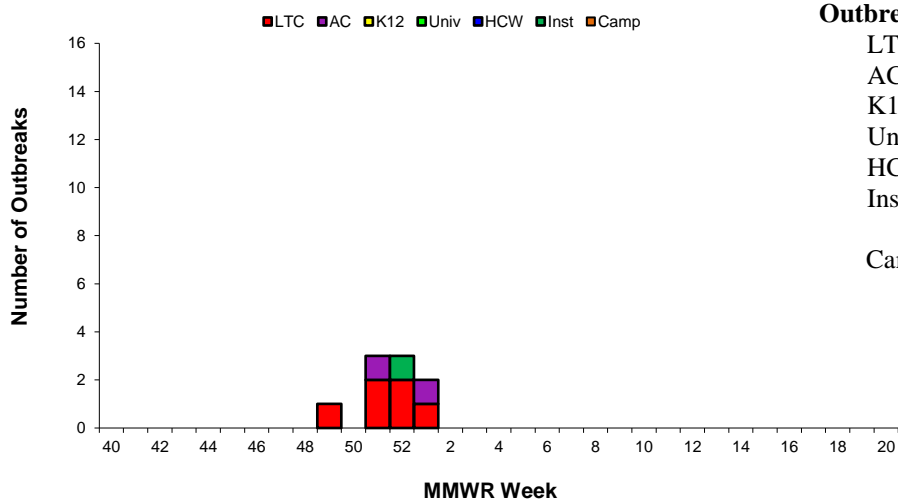
Outbreak Facility Type Key:
LTC - Long Term Care Facility
AC - Acute Care Facility (nosocomial)
K12 - School (K-12) or daycare
Univ - School (residential) or University
HCW - Health care workers
Inst - Other institutions (workplaces, correctional facilities etc)
Camp - Camp

Influenza-Like Illness Outbreak by Facility Type and County – Maine, 2019-20

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	1	0	0	0	0	0	0	1
Aroostook	0	0	0	0	0	0	0	0
Cumberland	2	2	0	0	0	1	0	5
Franklin	0	0	0	0	0	0	0	0
Hancock	0	0	0	0	0	0	0	0
Kennebec	1	0	0	0	0	0	0	1
Knox	0	0	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
Oxford	0	0	0	0	0	0	0	0
Penobscot	0	0	0	0	0	0	0	0
Piscataquis	0	0	0	0	0	0	0	0
Sagadahoc	0	0	0	0	0	0	0	0
Somerset	0	0	0	0	0	0	0	0
Waldo	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
York	2	0	0	0	0	0	0	2
Total	6	2	0	0	0	1	0	9

All data is preliminary and subject to change

National Influenza Surveillance Data

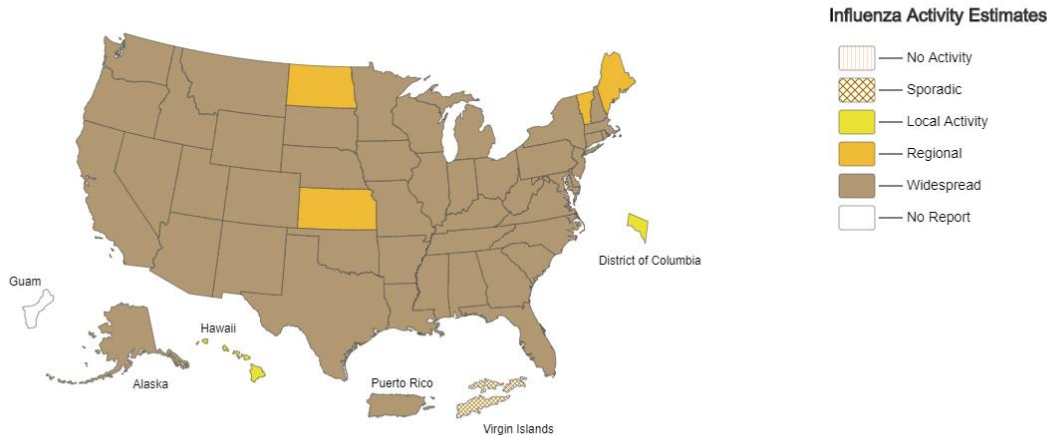Source: https://www.cdc.gov/flu/weekly/

FLUVIEW   **CDC**

A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Dec 28, 2019 - Week 52

Influenza Activity Estimates

- No Activity
- Sporadic
- Local Activity
- Regional
- Widespread
- No Report

*This map indicates geographic spread and does not measure the severity of influenza activity.

FLUVIEW   **CDC**

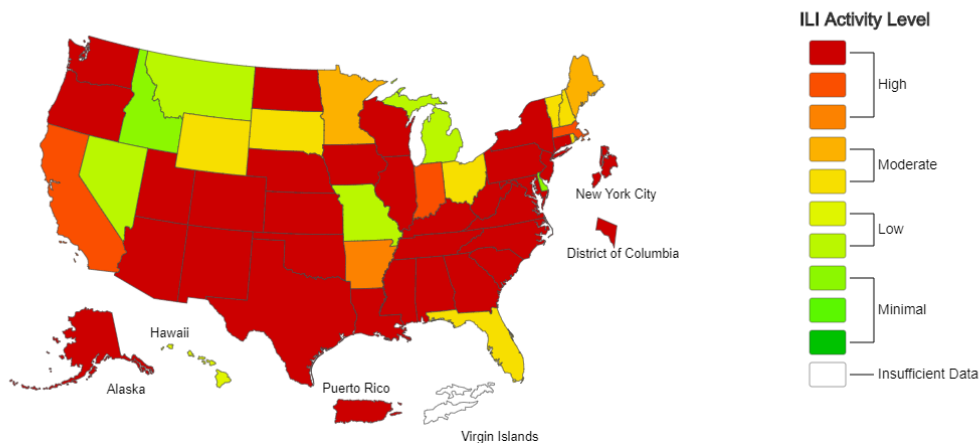### A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet

2019-20 Influenza Season Week 52 ending Dec 28, 2019

ILI Activity Level

- High
- Moderate
- Low
- Minimal
- Insufficient Data

*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.

*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

*Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

All data is preliminary and subject to change